

CONDUIT AND CABLE SCHEDULE STAGE II AND III

| CONDUIT DESIGNATION | CIRCUIT No. | FROM | TO | SERVICE | CONDUIT NUMBER OF SETS | SIZE | CABLE (PER COT.) OR BUSWAY NUMBER & SIZE | TYPE | REMARKS | CONDUIT DESIGNATION | CIRCUIT No. | FROM | TO | SERVICE | CONDUIT NUMBER OF SETS | SIZE | CABLE (PER COT.) OR BUSWAY NUMBER & SIZE | TYPE | REMARKS |
|--|-------------|----------------------------|----------------------------------|----------|------------------------|--------|--|---------------|--|--|-------------|-------------------------|---------------------------------|----------|------------------------|--------|--|---------------|---|
| MEDIUM VOLTAGE 15KV CABLE (SEE DWG. #E-39, RISER DIAGRAM) | | | | | | | | | | FDR'S - TRANSFER FROM EXIST. SWGR "R" BUS (SEE DWG. #E-40, ONE LINE DIAGRAM) | | | | | | | | | |
| PF-AIC | — | EXIST. 15KV SPLICE CABINET | BKR. #HV-B1 | 13.8KV | 1 | 4" | 3-350MCM | EPR | "Y" SPLICE TO EXISTING RISER CABLE | R-4 | 1-4 | SWGR. BUS #1 | ATS-75NR | 480V | 4 | 3" | 3-350MCM | XHHW-2 | |
| PF-AIC TEMP | — | BKR. #HV-B1 | EXIST. TR-1 | 13.8KV | 1 | 4" | 3-350MCM | EPR | TEMPORARY FDR. | | — | ATS-75NR | SWGR. BUS #EL | 480V | 4 | 3" | 3-350MCM | XHHW-2 | RUN FEEDERS BETWEEN EQUIPMENT |
| PF-A2C | — | EXIST. 15KV SPLICE CABINET | BKR. #HV-B2 | 13.8KV | 1 | 4" | 3-350MCM | EPR | "Y" SPLICE TO EXISTING RISER CABLE | R-5 | 2-4 | SWGR. BUS #2 | MCC-MN75R | 480V | 3 | 3 1/2" | 3-500MCM | XHHW-2 | |
| PF-A2C TEMP | — | BKR. #HV-B2 | EXIST. TR-2 | 13.8KV | 1 | 4" | 3-350MCM | EPR | TEMPORARY FDR. | R-8 | 1-3 | SWGR. BUS #1 | EXIST. P.B. #3 | 480V | 1 | 3 1/2" | 3-500MCM | XHHW-2 | |
| PF-A3C | — | EXIST. 15KV SPLICE CABINET | BKR. #HV-B3 | 13.8KV | 1 | 4" | 3-350MCM | EPR | "Y" SPLICE TO EXISTING RISER CABLE | R-9 | 2-3 | SWGR. BUS #2 | EXIST. PONYA ATS-70 | 480V | 1 | 3 1/2" | 3-500MCM | XHHW-2 | |
| PF-A3C TEMP | — | BKR. #HV-B3 | EXIST. TR-3 | 13.8KV | 1 | 4" | 3-350MCM | EPR | TEMPORARY FDR. | R-B1 | 2-6 | SWGR. BUS #2 | EXIST. P.B. #1 | 480V | 1 | 2 1/2" | 3-500MCM | XHHW-2 | |
| PF-A4C | — | EXIST. 15KV SPLICE CABINET | BKR. #HV-B4 | 13.8KV | 1 | 4" | 3-350MCM | EPR | "Y" SPLICE TO EXISTING RISER CABLE | J-6 | 1-6 | SWGR. BUS #1 | PNL DP-75N | 480/277V | 2 | 3 1/2" | 4-500MCM | XHHW-2 | REMOVE TEMP. FDR. R-7-TEMP INSTALLED IN STAGE I |
| PF-A4C TEMP | — | BKR. #HV-B4 | EXIST. TR-4 | 13.8KV | 1 | 4" | 3-350MCM | EPR | TEMPORARY FDR. | | | | | | | | | | |
| FDR'S - TRANSFER FROM EXIST. SWGR "L" BUS (SEE DWG. #E-40, ONE LINE DIAGRAM) | | | | | | | | | | FDR'S - TRANSFER FROM EXIST. SWGR BUS "EL" (SEE DWG. #E-40, ONE LINE DIAGRAM) | | | | | | | | | |
| L-1 | 3-5 | SWGR. BUS #3 | ATS-75NL | 480V | 5 | 3 1/2" | 3-500MCM | XHHW-2 | | R-10 | EL-1 | SWGR. BUS #EL | EXIST. P.B. #1 | 480V | 1 | 2 1/2" | 3-250MCM | XHHW-2 | |
| | — | ATS-75NL | EDP #EL-A76W | 480V | 5 | 3 1/2" | 3-500MCM | XHHW-2 | VIA P.B. #6, USING EXIST. 3 1/2" C. FROM P.B. #6 TO PNL. | R-11 | EL-2 | SWGR. BUS #EL | EXIST. P.B. #1 | 480V | 1 | 3 1/2" | 3-500MCM | XHHW-2 | |
| L-3-TEMP | 4-3 | SWGR. BUS #4 | EXISTING TRANSF. #TR-L3 | 480V | 2 | 3 1/2" | 3-500MCM | XHHW-2 | PROVIDE CABLE LUGS AT SWGR. BREAKER | R-12 | EL-3 | SWGR. BUS #EL | EXIST. P.B. #1 | 480V | 1 | 3 1/2" | 3-500MCM | XHHW-2 | |
| L-3 | 4-1 | SWGR. BUS #4 | TRANSF. #TR-L3 | 480V | 2 | 3 1/2" | 3-500MCM | XHHW-2 | | R-13 | EL-4 | SWGR. BUS #EL | ELEV. DISTRIBUTION PNL #EL-A76W | 480V | 2 | 3" | 3-350MCM | XHHW-2 | |
| L-3 | — | CB-L3 | EXIST. 1600A BUSWAY | 208/120V | 1 | — | 2000A BUSWAY | 3F, F.N. GND. | | EMERG. POWER FDR'S FROM ELEC. CLOSET "C" (SEE DWG. #E-40, ONE LINE DIAGRAM UNLESS OTHERWISE NOTED) | | | | | | | | | |
| L-4a | 4-2 | SWGR. BUS #4 | BUSWAY CAP | 480/277V | 1 | — | 2000A BUSWAY | 3F, F.N. GND. | | A-2 | — | EXIST. POW. PNL EPC-75A | ATS-75NL | 480V | 2 | 3 1/2" | 3-500MCM | XHHW-2 | VIA P.B. #13 |
| L-4b | 3-2 | SWGR. BUS #3 | EXIST. 1600A BUSWAY | 480/277V | 1 | — | 2000A BUSWAY | 3F, F.N. GND. | | A-3 | — | EXIST. POW. PNL EPC-75A | EXIST. P.B. #1 | 480V | 1 | 2" | 3-500MCM | XHHW-2 | |
| L-5 | 3-4 | SWGR. BUS #3 | P.B. #9 | 480V | 1 | 3 1/2" | 3-500MCM | XHHW-2 | | | — | EXIST. P.B. #1 | ATS-75NR | 480V | 1 | 2" | 3-500MCM | XHHW-2 | |
| L-7 | 4-4 | SWGR. BUS #4 | MCC-MN75L | 480V | 3 | 3 1/2" | 3-500MCM | XHHW-2 | | | — | PANEL #E-75A | P.B. "A" | 208V | 1 | 1 1/4" | 2 #2 | XHHW-2 | SEE DWG. #E-94 ONE LINE DIAGRAM & PLAN |
| L-B1 | 4-6 | SWGR. BUS #4 | EXIST. FIRE PUMP CONTROL STATION | 480V | 2 | 3" | 3-350MCM | XHHW-2 | | | — | P.B. "A" | DISC. SW. NORM. & U.P.S. | 208V | 1 | 1 1/4" | 2 #2 | XHHW-2 | |
| R-1-TEMP | 3-3 | SWGR. BUS #3 | EXISTING TRANSF. #TR-R1 | 480V | 2 | 3 1/2" | 3-500MCM | XHHW-2 | PROVIDE CABLE LUGS AT SWGR. BREAKER | UPS-75N | — | U.P.S. | PANEL CP-75N | 120/240V | 1 | 1 1/4" | 3 #2 | XHHW-2 | SEE DWG. #E-103, EXTEND FDR'S. TO TEMP. UPS |
| | | | | | | | | | | CP-75-BE | — | CB-UPS-75A | PULL BOX | 120/240V | 1 | 1 1/4" | 3 #2 | XHHW-2 | BY PASS POWER FOR SS-75N U.P.S. SEE DWG. #E-94 & E-103. |
| | | | | | | | | | | | — | PULL BOX | UPS-SS-75N | 120/240V | 1 | 1 1/4" | 3 #2 | XHHW-2 | |
| | | | | | | | | | | | — | PANEL #E-75A | PULL BOX | 208/120V | 1 | 2" | 3 #4/0 | XHHW-2 | SEE DWG. #E-94 ONE LINE DIAGRAM & PLAN |
| | | | | | | | | | | | | | | | | | | | |
| FDR'S - TRANSFER FROM EXIST. SWGR "R" BUS (SEE DWG. #E-40, ONE LINE DIAGRAM) | | | | | | | | | | TEMPORARY 480/277V. BUSWAY (SEE DWG. #E-40, ONE LINE DIAGRAM) | | | | | | | | | |
| R-1 | 2-1 | SWGR. BUS #2 | TRANSF. #TR-R1 | 480V | 2 | 3 1/2" | 3-500MCM | XHHW-2 | | T.B. | 1-2 | SWGR. BUS #3 | EXIST. COLLECTOR BUSWAY | 480/277V | 1 | — | 400A BUSWAY | 3F, F.N. GND. | TEMPORARY BUSWAY |
| R-1 | — | CB-R1 | EXIST. 1600A BUSWAY | 208/120V | 1 | — | 2000A BUSWAY | 3F, F.N. GND. | | | | | | | | | | | |
| R-2a | 1-2 | SWGR. BUS #1 | EXIST. 2000A BUSWAY | 480/277V | 1 | — | 2000A BUSWAY | 3F, F.N. GND. | | | | | | | | | | | |
| R-2b | 2-2 | SWGR. BUS #2 | EXIST. 1600A BUSWAY | 480/277V | 1 | — | 2000A BUSWAY | 3F, F.N. GND. | | | | | | | | | | | |
| R-3 | 2-7 | SWGR. BUS #2 | EXIST. P.B. #1 | 480V | 1 | 3 1/2" | 3-500MCM | XHHW-2 | | | | | | | | | | | |

- ① - REMOVE EXIST. & INSTALL COPPER CABLE LUGS
 ② - SPLICE TO EXIST. AL CABLE
 ③ - CONNECT TO EXIST. AL. BUSWAY

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THE PORT AUTHORITY
 OF NY & NJ

Peter K. Swamy
 ENGINEERING PROGRAM MANAGER
 WORLD TRADE CENTER
 DATE: 6/21/95
 SPEC. WRITER
 DATE: 8/15/95
 ENGINEER OF DESIGN

Engineering Department
 Design Division
 The World Trade Center
 Electrical/HVAC
 Upgrade Program

Title
 TOWER ONE AND TWO
 LOW VOLTAGE
 SUBSTATIONS
 CONSTRUCTION AND
 INSTALLATION
 ELECTRICAL
 SUBSTATION SS-75N
 STAGE II AND III
 CONDUIT AND CABLE
 SCHEDULE

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